

Plant genome; us ful as source of squalene

Patent Assignee: NAT RES COUNCIL CANADA (CANA)

Inventor: COVELLO P S; MACKENZIE S L; REANEY M J T

Number of Countries: 076 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9734003	A1	19970918	WO 97CA175	A	19970313	199743 B
AU 9720891	A	19971001	AU 9720891	A	19970313	199805

Priority Applications (No Type Date): US 9613340 A 19960313

Cited Patents: 6.Jnl.Ref; JP 6090743; US 5349126; WO 9609393

Patent Details:

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WO 9734003 A1 E 84 C12N-015/53

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LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG
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AU 9720891 A C12N-015/53 Based on patent WO 9734003

Abstract (Basic): WO 9734003 A

Isolated and cloned DNA (I), for introduction into a plant genome to reduce expression of squalene epoxidase (SE) below the natural level, has a sequence corresponding at least partly to a plant SE gene. Also new are: (1) plasmids pDR411, pDR111 and p129F12T7 (ATCC 97845, 97846 and 97847, respectively); (2) vectors containing a sequence antisense to (part of) a plant SE gene, flanked by promoter and terminator, for insertion into a plant genome; and (3) genetically modified plants, or their seeds, produced by insertion of (I).

USE - Plants transformed with (I) accumulate high levels of squalene (II) in their tissues and this can be recovered for use in cosmetics and health products.

ADVANTAGES - (II) can now be produced commercially from modified plants, particularly oilseed crops, as an alternative to isolation from shark liver or extraction from plant oils.

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Derwent Class: C06; D16; D21; D23; P13

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